### CONDUCTED BY ALBERT CHAPMAN.

Board of Agricuture, Manufactures and offer it for testing. Here the hydrome-Mining, at Ludlow, Wednesday and Thursday, December 1st and 2d, 1875. Wednesday Afternoon. - I. Address specific gravity of skimmed milk is

of welcome, by L. G. Fullam, Ludlow; greater than that of whole milk. A 2. Horses for Vermont, by Albert little water may be added to it, and Chapman, Agricultural editor Middle- then it will show the same specific bury Register; 3. Water power of Ver- gravity as whole milk. So distillery mont, by Henry Clark, editor Rut-land Globe. or brewery slop milk may be unadul-terated, yet the hydrometer will indi-

Wednesday evening.—Does farming pay equal to the professions, by A. F. thousand and twenty-seven, which in Hubbard, Tyson Furnace; Opportunities for young farmers, by John B. Mead, Randolph.

CLOTHING

CLOTHING

CLOTHING

Saved from the fire (but slightly damaged), that we offer at unprecedented low prices, also a large lot of Gents'

ace Hubbard, Springfield.

of fertilization, by J. C. Stickney, Tyson Furnace, Does land leach, by I... suspicion is not certainty, yet the reasonable suspicion which the nose gives F. Wheeler, Ludlow.

ry interest, by Alexis P. Smith, New mind, by the sight of the animal. So Fullam, Ludlow; The selection and If the milk delivered to a cheese factocare of cows for the butter dairy, by Gardner S. Fassett Engalureh. Gardner S. Fassett, Enosburgh.

### Quality of Milk.

"The Winthrop (Maine) cheese factory, during a season of eighty-three days, averaged only 8.07 pounds of milk to a pound of cheese. The milk was chiefly that of Jersey and grade Jersey cows. The cheese was also of high quality. We have heard of no and a little water added, yet the hypothesis of the cheese was also of high quality. We have heard of no and a little water added, yet the hypothesis of the cheese was also of high quality. Jersey cows. The cheese was also of high quality. We have heard of no other factory that averaged much less than ten pounds of milk to a pound of cheese. The three best cows whose milk went to this factory were pure Jerseys, and yielded from thirty-five to thirty-seven and one-half pounds of milk per day. It has been generally supposed that Jerseys were useless for the cheese dairy, but this success will doubtless encourage other tests."—[Exchange.

We alluded, recently, to our experiments and investigations made a number of years ago, in relation to the qualthis fact the discovery of which was and thirty on the hydrometer scale.

and reconciled with the equally well mer and Mr. Wetherell's present theory is based? That prior fact is, that oream is lighter than the watery conusually show a less specific gravity below the cost of production, and the than milk poor in cream. Where there is variation, it is quite as likely to show a greater specific gravity. The of cheese which is stranded, high and milk of our own Jersey cow has usual- dry, above the existing trade current. Jersey milk is heavier than a quart of the moreure of the sufficient to the demand. The man and has tried the experiment requestion. If any one can think of any persently because he are man. ence of so much cream in the milk.

inconsistent facts in perfect harmony. as of butter. Now the casein and su- dissatisfaction in the trade leads each gar in the milk are heavier than the of the classes handling cheese to look water, just as the butter is lighter than with distrust upon the other classes the water; so that these heavier constitutents increase the specific gravity as much as the cream lessens it-sometimes a little more, which accounts for Mr. Sheafe's discovery.

The extract at the head of this artimilk will not only make more butter, the milk of other breeds.

In regard to the specific gravity test of a little knowledge often leads persons who try experiments into serious errors. In testing milk by its specific of past rewards; but trade laws are ingravity, no accurate results can be eb- exorable. tained, unless all the samples are tested at the same temperature. A variation different samples will entirely vitiate ing from two and a half to four cents a whole dairy has been poured togeth-er, we have never been able to note a

variation so great as two degrees. for the hydrometer. It does not give, county, Penn., raised on five nercs 1101 in itself, conclusive evidence of the bushels of corn the past season. An adulteration of milk with water. But uncommonly large crop.

It gives very strong presumptive evidence. The common trick by which it has frequently been attempted to discredit this instrument, is to skim the milk, add a little water to it, and then

Thursday morning.-What are the The use of the hydrometer in testing Thursday morning.—What are the serious and common impediments that serious and common impediments that hinder the prosperity of the farmer, hinder the prosperity of the farmer, water has been added, when the hypothesis are serious and common impediments that once raises a reasonable suspicion that over the hypothesis are serious and common impediments that once raises a reasonable suspicion that once raises are reasonable suspicion that once raises a reasonable suspicion that once raises are reasonabl hinder the prosperity of the farmer, once raises a reasonable suspicion that by Ex-Gov. Hyland Fletcher, Caven-water has been added, when the hydish; Waste on the farm, by C. Hor- drometer shows a less specific gravity ( the milk being at sixty degrees,) than Thursday afternoon.—The principles ten hundred and thirty. Reasonable that a skunk has been around, is not Thursday evening.—The general dai- greatly increased, in an intelligent Haven: The setting of milk, by L. G. it is with the hydrometer test of milk. grees of temperature, a less specific gravity than ten hundred and thirty, something is certainly wrong. The milk may be watered, or the cows may be sick, or they are being fed with fer-

comparatively small), fraud by skim-

ming may be reasonably inferred. In this article we have given the degrees as shown by the regular specific ity of milk. Among the more surpris- gravity instrument for fluids, called ing results attained was the discovery the hydrometer. But the cheese fac- To H. W. Brewster's store, we shall keep as large that the specific gravity of milk does tories and other milk buyers frequent- a stock as our room will permit. not vary with its quality; that is, the ly used a special instrument, called a milk of different cows may be of very lactometer, which is more coarsely uearly the same specific gravity, and graduated, and upon the scale of which yet differ greatly in richness. It is twenty corresponds to ten hundred wet this twenty corresponds to ten hundred with the hydrometer scale.

the result of frequently repeated and A final point ought also to be noted, varied tests) that explains why the in order to avoid misconception or misspecific gravity instrument is so useful construction. In testing a cow's milk in determining water adulteration of by the hydrometer, the whole product milk. The editor of the Beston Culti- of a milking must be used, from which vator, who is always, and very rightly to take the sample to be tested. It is too, demanding that the test of actual well understood by dairymen that the experiment should be applied to agrifirst drawn milk is poorer than the cultural theories, has disputed our con- last drawn at each milking. For quib- ENTIRELY clusions on this point, though they bling in argument (or "logomachy" were reached by experiments that ut- this point can be made of use, to raise a terly changed our own preconceived dust; but in practice, such splitting of opinion, based, like his own stiffly milk rarely occurs, and when it does maintained views, on theory alone. How is the singular fact in reference tube test .- [DR. Hoskins in Watch-free to milk, noted above, to be explained man and Journal,

O tot - F tod notion of oncose.

Mr. Willard has written a letter to stituent of milk, and that an increase the London Agricultural Gazette on of cream in milk will, therefore, reduce its specific gravity. The infer-United States. He says the wisest facence that has been drawn from this tory managers have sold their product on which Mr. Wetherell regularly through the se pins his faith, is that milk rich in best attainable price, while others, cocream will show a less specific gravity pecially in Canada, have piled their on that account. But the truth, as shelves with large quantities "to await shown by actual and repeated test, is the chances of a most unpromising fudifferent. Milk rich in cream does not ture." He regards present prices as

peatedly, because he, as well as Mr.
Wetherell and ourself, expected a different result, on account of the pres-euce of so much cream in the milk How is this curious phenomenon ex- a number of failures among dealers plained? Real facts are not contradic- in dairy products, although I have yet tory, though they may seem so. The discovery of a tertium quid, as our directly through the decline of cheese. scholastic brother editor would say-a third fact—sets these two apparently away from the dairy, and taking poor chances on grain and hops. Those who This tertium quid is the fact that the have clung to the dairy have not made casein and sugar in milk increase pari anything, but they have generally been passu (more Latin, brother Wether- too cautious to take very great risks. Hats & Caps, ell), increase, we should say, equally There is, however, in the interior conwith the cream. When the milk of a siderable distrust of the New York cow is rich, it is rich in case in and sugar dealers, and the New York dealers in as well as in butter. When the milk turn assure us that the skippers are of a cow lucrenses in richness there is possessed of no property, and are liable an addition of casein and sugar, as well to go up at any time. Of course the

discomfort all around the box. All the items in the present outlook seem to declare that the season of 1874 marked the close of an epoch in American dairying. Up to that time it was cle is entirely confirmatory of this going on prospering and to prosper. View, showing as it does that Jersey This year marks the climax and the reversing. Hence it will build up but more cheese, in proportion to its again. Next year there will be an imbulk, than common milk. That is, provement, because those who will fly Jersey milk is richer every way, than the milk of other breeds.

That is, from the ship this fall will lighten it, so that it will float on next year's demand. It is not pleasant to think of LAP ROBES. Of every description of milk, we wish to note that the want the farmers who embarked this year with bright hopes on the enlightened

and the result is a demoralization and

A California paper states that "milof a few degrees of temperature in the lions of pounds of mustard, commandthe test. But when this simple point is observed, we never yet, in many hundred experiments, have found the very delicate sweet oil is pressed from formerly occupied by L. R. Sayre. specific gravity of milk from healthy it, devoid of acrid taste, returned to Groceries & Provisions! cows (not fed on distillery or brewery this country and sold for olive oil. The slop) to vary as much as three degrees of the hydrometer. When the milk of expressed is ground up into the ordi-

But too much must not be claimed Mr. W. L. Taylor of Washington

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Fire!

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GLOVES, 4C., 4C.

Fine all wool cassimere Pants

A large assortment of gents white, solored and

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White Dress Shirts at \$1.00 each.

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30 DAYS!

In 30 days Geo. Smith & Son, the Begs to inform the good people of ly a specific gravity of one thousand It is this summer's make which must builders of our new store, say it will and thirty-two, though she makes over an ounce of butter to a pound of milk. There cannot be less than 250,000 box- be ready to occupy. Until then we N. T. Sheafe, Esq., of Derby Line, Vt., es now lying in the several dairy re-shall offer special inducements in low for many years a breeder of Jerseys, gions. This amount seems just about prices, to reduce stock before moving,

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We have now on hand the largest stock of above named goods to be found in the county. Don't buy until you have examined our goods and Of all kinds done in the prices. You can save ten per cent if you will. Remember for 30 days we shall be in the store

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Respectfully yours,

Frank A. Bond, Nov. 1, 1875.

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PURE SPERM OIL for Mowing Machine Whate, Lard and Neats Oils, and

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The best Condition Powders known for Cattle and Horses. Sold low by the pound.

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CASHMERE SUITS AND FANCY PANTS,

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Fine diagonal and basket wove

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Vests 81. to \$2.00 At \$1.25, \$1.50, \$1.75, \$2.00 and \$2.75 each. WOOLEN SOCKS.

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LINEN & PAPER COLLARS & CUFFS WARP In great variety AT FACTORY PRICES. Also DYE STUFFS and COLORS of every kind

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DRUG BUSINESS LARGER STOCK THAN EVER.

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SALE.—The property situate on the cor-ner of Seminary and High streets, in the village of Middlebury, and occupied by Wm. B. Nichols. Said property consists of two dwelling houses and a barn, and the lot upon which they stand, and is located in a pleasant section of the village. For terms inquire of Niddlebury, V1., June 28, 1876.

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SUMMER ARRANGEMENT.

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Moving Sours—Leaves Rutland at 2:20 p m; Brandon 6:27; Middlebury 4:50; Vergennes 6:32; arrives in Burlington at 7:15; and only stops at the above stations, except to take paisenger going north of St. Albans.

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Mixed—Leaves Burlington at 2:15 a m; Brandon 3:2; Middlebury 4:50; Vergennes 6:32; arrives in Burlington at 7:15; p m. Mixed—Leaves Burlington at 8:10 a m; Vergennes 8:13; Middlebury 9:05, Brandon 10:48; arrives in Burlington at 2:15 a m; Brandon 1:27 p m; arrives in Burlington at 2:15 p m. New York Express—Leaves Burlington at 2:30 p m. New York Express Leaves Burlington at 2:3 SUMMER ARRANGEMENT.

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And hi work attests skill in their use. In rooms poor an Camali, Styled Toverty Hall," He produces effects, You declare the performs Go, see for yourself, There, on nail and shelf You discover faces With so many graces,

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Tinn any shop-keeper.

It will pay you, at least once,
Where Stereo-Views
Are kept to amuse,
And it may come to pass,
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now to take their place in permanent and authortic history.

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production in literature, and of the newest insouthors in the practical arts, as well as to give
a succint and original record of the progress of political and historical events.

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resources for carving it on to a successful termination.

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